



Sheet 1 of 4

U.S. Department of Commerce, Patent and Trademark Office	Serial No.: 10/010,786
	Filing Date: 11/09/2001
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Inventors: Novotny, et al.
"MICRO-ELECTRO-MECHANICAL VARIABLE OPTICAL ATTENUATOR"	Group Art Unit: 2874
	Examiner Name: Valencia, Daniel E.
	Attorney Docket No.: 13441-002001

U.S. Patent Documents

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date, If Appropriate
<i>DDL</i>	AA	6,301,403 B1	10/09/01	Heanue et al.	385	18	
<i>DDL</i>	AB	6,253,001 B1	06/26/01	Storrs T. Hoen	385	17	
<i>DDL</i>	AC	6,028,689	02/22/00	Michalick et al.	359	224	
<i>DDL</i>	AD	5,872,880	02/16/99	Ronald S. Maynard	385	88	
<i>DDL</i>	AE	6,283,601 B1	09/04/01	Hagelin et al.	359	871	

Foreign Patent Documents

							Translation	
		Document Number	Date	Country	Class	Subclass	Yes	No
	AF							

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>DDL</i>	AG	"ROUTING PACKETS WITH LIGHT," Daniel J. Blumenthal. Scientific American, pages 96-99. January 2001.					
<i>DDL</i>	AH	"Construction and performance of a 576x576 single-stage OXC," Herzel Laor. LEOS, San Francisco, California, 3 pages. November 8, 1999.					
<i>DDL</i>	AI	"Application of micro- and nanotechnologies for the fabrication of optical devices," Wolfgang Ehrfeld and Hans-Dieter Bauer. SPIE Vol. 3276, page 2 and pages 4-14. (March 1998)					
<i>DDL</i>	AJ	"PERFORMANCE OF A 576x576 OPTICAL CROSS CONNECT," Laor, et al. NFOEC, Chicago, Illinois, pages 1-5. September 26, 1999.					
<i>DDL</i>	AK	"Control and shape design of an electrically-damped comb drive for digital switches," Yijian Chen. Proceedings of SPIE Vol. 4178, 2000. Pages 387-394.					

Examiner

John D. Lee

Date Considered

29 OCTOBER 2003

*EXAMINER. Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

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AL						

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AM								

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

ADL	AN	"THE RISE OF OPTICAL SWITCHING," David J. Bishop et al. Scientific American, pages 88-94. January 2001.
ADL	AO	"A LARGE-DEFLECTION ELECTROSTATIC ACTUATOR FOR OPTICAL SWITCHING APPLICATIONS," John D. Grade, Hal Jerman and Thomas W. Kenny. Presented at Hilton Head, 2000. 4 pages.
ADL	AP	"FLIP CHIP CHALLENGES," Steve Bezuk, PH.D. General Manager, Applied Technology Development and Flip Chip Kyocera America, Inc. First published in HDI Magazine, February 2000. 6 pages.
ADL	AQ	"MEMS Feedback Control Using Through-Wafer Optical Device Monitoring," J.M. Dawson, et al. Proceedings of SPIE Vol. 4178, 2000. Pages 221-227.
ADL	AR	"A FLAT HIGH-FREQUENCY SCANNING MICROMIRROR," Robert A. Conant, et al. 2000 Solid-State Sensor & Act Workshop, Hilton Head, S.C., June 4-8, 2000. (4 pages)
ADL	AS	"The Surface/Bulk Micromachining (SBM) Process: A New Method for Fabricating Released MEMS in Single Crystal Silicon," Sangwoo Lee, et al. Journal of Microelectromechanical Systems, Vol. 8, No. 4, December 1999. Pages 409-416.
ADL	AT	"MEMS actuators for silicon micro-optical elements," Norman C. Tien and Daniel T. McCormick. Proceedings of SPIE Vol. 4178, 2000. 256-267.

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JDL	AU	5,724,123	03/03/98	Tanaka	356	5.01	
JDL	AV	6,320,993B1	11/20/01	Laor	385	16	
JDL	AW	6,252,466 B1	06/26/01	J. Patrick Kawamura	331	25	
JDL	AX	6,097,859	08/01/00	Solgaard et al.	385	17	

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		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
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JDL	BA	"Optical MEMS for Optical Communications - Trends and Developments," Veljko Milanovic. Adriatic Research Institute. Pages 2-6. Downloaded December 20, 2001.
JDL	BB	"Silicon micromachines for lightwave networks: the little machines that will make it big," by David Bishop. December 2000. SPIE's Optics & Information Systems. 8 pages, vol. 11, No. 2.
JDL	BC	Topical Review "The future of MEMS in telecommunications networks," James A. Walker. J. Micromech, Microeng.10(2000)R1-R7. Printed in the UK.
JDL	BD	D.J. Bishop Presentation, "Silicon Micromachines for Lightwave Networks: Can Little Machines Make it Big?" Lucent Technologies, Bell Labs Innovations. 83 pages. February, 1999.

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JDL	BE	6,075,239	06/13/00	Aksyuk et al.	250	229	
JDL	BF	6,246,826 B1	06/12/01	O'Keefe et al.	385	140	
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	BH						

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							Yes	No
	BI							

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	BJ	"Fiber coupling (1 x 2 beam splitter)." Development Editor: Marleen Madou; Publisher: Ron Powers; Project Editor: Paul Gottehrer; and cover Design: Denise Craig. 1997 by CRC Press LLC. 4 pages.
JDL	BK	United States Patent Application Publication, "Latching Apparatus for a MEMS Optical Switch," by Zhang et al. Pub. No.: US 2002/0172452 A1, Pub. Date: November 21, 2002. Appl. No.: 09/860,300, filed May 18, 2001.
	BL	
	BM	
	BN	

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